

HEXAL Gentech ForschungsGmbH

Abstract

5 The invention relates to a method for enriching tumor
cells from a body fluid, in which a cell separation
medium of a specific density is overlaid with the body
fluid and it is subsequently determined whether the
enriched cells express an epithelial marker, for
10 example a cytokeratin. A kit suitable for this method
is likewise provided.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date

18 March 2004 (18.03.2004)

PCT

(10) International publication number

WO 2004/023110 A1

(51) International patent classification⁷:
33/574

G01N 15/05,

(81) Designated states (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International application number: PCT/EP2003/008796

(22) International filing date: 7 August 2003 (07.08.2003)

(25) Language of filing: German

(26) Language of publication: German

(30) Data relating to the priority:
102 37 296.9 14 August 2002 (14.08.2002) DE

(71) Applicant (*for all designated States except US*): HEXAL GENTECH FORSCHUNGSGMBH [DE/DE]; Industriestr. 25, 83607 Holzkirchen (DE).

(72) Inventor; and

(75) Inventor/Applicant (*US only*): DAHM, Michael, W. [DE/DE]; Gleimstrasse 2, 81677 Munich (DE).

(84) Designated states (*regional*): ARIPO Patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian Patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European Patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI Patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- With International Search Report.

(74) Attorneys: KELLER, Günter, etc.; Lederer & Keller, Prinzregentenstrasse 16, 80538 Munich (DE).

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

As printed

WO 2004/023110 A1

(54) Title: METHOD FOR THE IMMUNOCYTOLOGICAL OR MOLECULAR DETECTION OF DISSEMINATED TUMOR CELLS IN A BODY FLUID AND KIT THAT IS SUITABLE THEREFOR

(54) Bezeichnung: VERFAHREN ZUM IMMUNZYTologischen ODER MOLEKULAREN NACHWEIS VON DISSEMI-NIERTEN TUMORZELLEN AUS EINER KÖRPERFLÜSSIGKEIT UND DAZU GEEIGNETER KIT

(57) Abstract: The invention relates to a method for enriching tumor cells of a body fluid, in which a cell-separating medium having a specific density is covered with a layer of the body fluid and centrifuged. It is then determined whether the enriched cells express an epithelial marker, e.g. a cytokeratin. Also disclosed is a kit that is suitable for carrying out said method.

(57) Zusammenfassung: Die Erfindung betrifft ein Verfahren zur Anreicherung von Tumorzellen aus einer Körperflüssigkeit, wo-rin ein Zellseparationsmedium spezifischer Dichte mit der Körperflüssigkeit überschichtet und zentrifugiert wird und anschließend bestimmt wird, ob die angereicherten Zellen einen epithelialen Marker, z.B. ein Zytokeratin exprimieren. Ein für dieses Verfahren geeigneter Kit wird ebenfalls bereitgestellt.